

Storm Data and Unusual Weather Phenomena - October 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAKE MICHIGAN				
SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 3.2 NE KOHLER/ANDRAE ST PRK [43.70, -87.69], 2.6 NE KOHLER/ANDRAE ST PRK [43.69, -87.69]				
	10/19/11 08:05 CST	0		Waterspout
	10/19/11 08:15 CST	0		Source: Public
SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 3.1 NE KOHLER/ANDRAE ST PRK [43.70, -87.69], 2.8 NE KOHLER/ANDRAE ST PRK [43.70, -87.69]				
	10/19/11 08:12 CST	0		Waterspout
	10/19/11 08:20 CST	0		Source: Public
SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 3.1 NE KOHLER/ANDRAE ST PRK [43.70, -87.69], 2.8 NE KOHLER/ANDRAE ST PRK [43.70, -87.69]				
	10/19/11 08:14 CST	0		Waterspout
	10/19/11 08:20 CST	0		Source: Public
<p>Unstable conditions in the low levels of the atmosphere over Lake Michigan along with increasing low-level convergence associated with a developing Low Pressure system in the Tennessee and Ohio Valleys produced several waterspouts over the near shore waters of Lake Michigan during the morning on October 19th. Based on eyewitness reports it is estimated that three waterspouts were visible between 9 and 930 am CDT over the near shore waters of Lake Michigan, just east-northeast of Kohler-Andrae State Park. The waterspouts were just north of an area of showers. Members of the public viewed the waterspouts east-northeast from Oostburg and south-southeast from downtown Sheboygan. The waterspouts dissipated off-shore.</p>				
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.6 NE RACINE [42.74, -87.78]				
	10/19/11 13:23 CST	0		Marine High Wind (MG 50 kt)
	10/19/11 13:23 CST	0		Source: Public
Measured gust at Racine Yacht Club.				
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]				
	10/19/11 15:10 CST	0		Marine High Wind (MG 47 kt)
	10/19/11 15:10 CST	0		Source: C-MAN Station
Measured at KNSW3 lake shore observation site. Sustained winds of 38 knots at time of gust.				
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]				
	10/19/11 16:00 CST	0.10K		Marine Strong Wind (MG 42 kt)
	10/19/11 16:00 CST	0		Source: C-MAN Station
Measured at MLWW3 marine observation platform.				
SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 1.4 E SHEBOYGAN [43.75, -87.69]				
	10/19/11 16:00 CST	0.10K		Marine Strong Wind (MG 45 kt)
	10/19/11 16:00 CST	0		Source: C-MAN Station
Measured at SGNW3 marine observation platform. Prevailing winds of 41 knots at time of wind gust.				
SHEBOYGAN TO PT WASHINGTON WI COUNTY --- 1.4 E SHEBOYGAN [43.75, -87.69]				
	10/19/11 18:00 CST	0.10K		Marine Strong Wind (MG 46 kt)
	10/19/11 18:00 CST	0		Source: C-MAN Station
Measured at SGNW3 marine observation platform. Prevailing winds of 37 knots at time of gust.				
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.6 NE RACINE [42.74, -87.78]				
	10/19/11 18:00 CST	0		Marine High Wind (MG 63 kt)
	10/19/11 18:00 CST	0		Source: Public
Measured at Racine Yacht Club.				
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]				
	10/19/11 18:20 CST	0		Marine High Wind (MG 53 kt)
	10/19/11 18:20 CST	0		Source: C-MAN Station

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Measured at KNSW3 marine observation platform. Prevailing wind 43 knots at time of wind gust.				
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]				
	10/19/11 19:00 CST		0.30M	Marine Strong Wind (MG 46 kt)
	10/19/11 19:00 CST	1	0	Source: C-MAN Station

Measured at MLWW3 marine observation platform.

WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 3.2 E WIND POINT [42.78, -87.77]				
	10/19/11 21:00 CST		0	Marine High Wind (EG 50 kt)
	10/19/11 21:00 CST		0	Source: Public

Tree damage at Shoop Park Golf Couse in Wind Point. Wind gust speed and time estimated.

WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 0.7 NNE RACINE [42.73, -87.80]				
	10/19/11 23:15 CST		0.10K	Marine Strong Wind (MG 40 kt)
	10/19/11 23:15 CST		0	Source: Mesonet

Measured at 21st Century Prep School.

LM SHEBOYGAN WI TO WINTHROP HARBOR IL EWD BYD 5NM TO MID LINE OF LAKE COUNTY --- 1.9 N SHEBOYGAN [43.78, -87.72]				
	10/19/11 23:20 CST		0.10K	Marine Strong Wind (MG 41 kt)
	10/19/11 23:20 CST		0	Source: Mesonet

Measured at Sheboygan North High School.

Rapidly developing low pressure moved across western Ohio and southeast Lower Michigan during the overnight period of October 19th and morning of October 20th. An associated strong pressure gradient and lingering unstable conditions over Lake Michigan allowed strong gusty north to northeast winds to mix down to the lake surface. The lake surface temperature at this time was estimated to be in the 54 to 58 degree range. Wind gusts reached 50 to 70 mph along the lake shore. The strong winds caused high waves of 12 to 16 feet. The strong winds and high waves caused extensive damage to boats in the South Shore Yacht Club, mainly due to an eroding and failing breakwall protecting the southern part of Milwaukee Harbor. Three boats were totally destroyed at the yacht club. Four others were washed ashore and were able to be salvaged. Two of the destroyed boats were sunk. One person at the Club, while trying to secure a boat with a rope line, was tossed about on the boat due to wave action and injured (directly-related).

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Here are several images showing the high waves crashing on the breakwall located in the southern end of Milwaukee Harbor, just east of the South Shore Yacht Club. Also pictured are several of the boats that sustained damage from the high waves. Photographs taken by Chris Gribble, a member of the South Shore Yacht Club.

WIND POINT WI TO WINTHROP HARBOR IL 5NM OFFSHORE TO MID LAKE COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]

10/23/11 21:00 CST	0	Marine Thunderstorm Wind (MG 40 kt)
10/23/11 21:10 CST	0	Source: C-MAN Station

Wind gusts of 39 to 40 knots lasted 10 minutes.

A line of strong thunderstorms caused by a weak frontal boundary affected the near shore waters of Lake Michigan south of North Point Lighthouse to the Illinois border during the evening.

WISCONSIN, Southeast

(WI-Z052) SHEBOYGAN, (WI-Z060) OZAUKEE

10/19/11 16:00 CST	4K	Strong Wind (MAX 46 kt)
10/20/11 08:30 CST	0	

Rapidly developing low pressure moved across western Ohio and southeast Lower Michigan during the overnight period of October 19th and morning of October 20th. An associated strong pressure gradient produced strong gusty north to northeast winds over Sheboygan and Ozaukee Counties. Wind gusts reached 40 to 53 mph near the Lake Michigan shore. The persistent strong winds downed weak trees and tree limbs which then snapped power-lines, causing scattered power outages.

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(WI-Z059) WASHINGTON, (WI-Z065) WAUKESHA, (WI-Z070) WALWORTH				
	10/19/11 16:00 CST		6K	Strong Wind (MAX 39 kt)
	10/19/11 19:53 CST		0	
Rapidly developing low pressure moved across western Ohio and southeast Lower Michigan during the overnight period of October 19th and morning of October 20th. An associated strong pressure gradient produced strong gusty north to northeast winds over Washington, Waukesha and Walworth Counties. Sustained winds reached 30 mph, with estimated gusts up to 45 mph. The persistent strong winds downed weak trees and tree limbs which then snapped power-lines, causing scattered power outages.				
(WI-Z066) MILWAUKEE, (WI-Z071) RACINE, (WI-Z072) KENOSHA				
	10/19/11 17:00 CST		35K	High Wind (MAX 63 kt)
	10/20/11 02:45 CST		0	
Rapidly developing low pressure moved across western Ohio and southeast Lower Michigan during the overnight period of October 19th and morning of October 20th. An associated strong pressure gradient and unstable conditions over the relatively warmer waters of Lake Michigan allowed strong gusty north to northeast winds to mix down to the lake surface and push inland from Milwaukee south to the Illinois border. Wind gusts reached 50 to 70 mph along the lake shore...and up to 51 mph inland. In downtown Milwaukee, wind and debris broke a few windows in the U.S. Bank tower. Elsewhere...some weak trees were uprooted and there were many reports of broken tree branches. This tree debris damaged at least a couple homes and resulted in scattered power outages as power-lines came down. The strong winds and high waves caused extensive damage to several boats and docks at the South Shore Yacht Club in Milwaukee. Refer to the separate Marine Strong Wind event within Storm Data for details.				